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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/637,080	08/04/2003	Frank Crosby	84,742	9070	
7590 COASTAL SYST	0 01/19/2007 EMS STATION, DAI	EXAM	EXAMINER		
NAVAL SURFACE WARFARE CENTER 6703 W HWY 98 CODE CP2L PANAMA CITY, FL 32407-7001			DANG,	DANG, DUY M	
			ART UNIT	PAPER NUMBER	
			2624		
SHORTENED STATUTORY PI	ERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
31 DAYS 0		01/19/2007	PA	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/637,080	CROSBY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Duy M. Dang	2624				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti- will apply and will expire SIX (6) MONTHS from 6, cause the application to become ABANDON	N. imely filed In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 8/4/0	13					
	s action is non-final.	•				
·= ·-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
	Claim(s) <u>1-47</u> is/are pending in the application.					
5) Claim(s) is/are allowed.	4a) Of the above claim(s) is/are withdrawn from consideration.					
· · · · · · · · · · · · · · · · · · ·						
· · · · · · · · · · · · · · · · · · ·	6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to. 8) Claim(s) <u>1-47</u> are subject to restriction and/or	alaction requirement					
o) Claim(s) 1-47 are subject to restriction and/or	election requirement.	·				
Application Papers	•					
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prio	rity documents have been receiv	ed in this National Stage				
application from the International Burea	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
•						
Attachment(s)						
1) Unotice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6)						

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-6, 14-19, and 26-37, drawn to a subject matter of "calculating a number of an average peak value from the identified peak values and calculating a threshold according to the average peak value, the number identified peak values, and a predetermined number of false alarm", classified in class 382, subclass 206.
- II. Claim 7-13, 20-24, and 38-47, drawn to a subject matter of "bounding an area around the location of the identified pixel, the area corresponding in size to an area of a known target image, and calculating threshold using formula set forth in claim 10 for example", classified in class 382, subclass 224.
- III. Claim 25, drawn to a subject matter of "identifying a number of peak values from the plurality of values, each peak value in the number of peak values

 corresponding to an area of the image equivalent to an area of the at least one known target image", classified in class 382, subclass 103.
- 2. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II-III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the details of the claimed subject matter as defined by each of Inventions II-II is

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not utilized in the Invention I. The subcombination has separate utility as defined by each of Inventions II-III.

The examiner has required restriction between combination and subcombination inventions. Where applicant elects a subcombination, and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art due to their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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3. If Invention I is elected, a further election of species is required (see below). If Invention II is elected, then claims 7-13, 20-24, and 38-47 will be examined. If Invention III is elected, then claim 25 will be examined This application contains claims directed to the following patentably distinct species of the claimed invention:

-species I corresponding to an embodiment described in figure 6 and defined by claims 2-5, 15-18, 27-30, and 33-36; and

- -species II corresponding to an embodiment described figure 7 and defined by claims 6, 19, 31, and 37.
- 4. The species I-II are distinct because they are directed to a related inventions. That is, species I-II as defined by claims 2-6, 15-19, 27-31, and 33-37 have material different designs and modes of operation (i.e., "pixel location", "bound area", "insignificant values" in figure 6 of species I are not utilized in species II as depicted in figure 7. Also, "calculating number of objects having values greater than threshold", "calculating new threshold" in figure 7 of species II are not utilized in species I as depicted in figure 6). See MPEP 806(j).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 14, 26, and 32 are generic claims.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species/inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention/spices, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duy M. Dang whose telephone number is 571-272-7389. The examiner can normally be reached on Monday to Friday from 6:00AM to 2:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew C. Bella can be reached on 571-272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

dmd 1/07

> DUY M. DANG PRIMARY EXAMINER